

**Notice of Allowability**

Application No.

09/882,471

Examiner

Mujtaba K. Chaudry

Applicant(s)

MCBRYDE ET AL.

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**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 3/21/2006.
2. ☒ The allowed claim(s) is/are 3-13.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

  
GUY LAMARRE  
PRIMARY EXAMINER

### REASONS FOR ALLOWANCE

Claims 3-13 are allowed. The following is an Examiner's statement of reasons for allowance:

Independent claim 6 of the present application teaches a data management architecture comprising: an XOR engine; a host network interface coupled to said XOR engine and for coupling to a host computer system; a cache to said XOR engine; a storage device interface coupled to said cache and for coupling to a plurality of storage devices, wherein said XOR engine includes: a first transceiver coupled to said host network interface; logic means for (i) generating an XOR parity byte using said data and appending said parity byte to said data. (ii) checking XOR parity, and (iii) correcting detected parity errors; a second transceiver coupled to said cache. The foregoing limitations are not found in the prior arts of record. Particularly, none of the prior arts of record teach nor fairly suggest, "...a first transceiver coupled to said host network interface; logic means for (i) generating an XOR parity byte using said data and appending said parity byte to said data. (ii) checking XOR parity, and (iii) correcting detected parity errors; a second transceiver coupled to said cache" are not taught nor fairly suggested in the prior arts of record.

Independent claims 7, 12 and 13 include similar limitations of independent claim 6 and therefore are allowed for similar reasons.

Dependent claims 3-5 depend from allowable independent claim 6 and inherently include limitations therein and therefore are allowed as well.

Independent claim 8 teaches a data management architecture comprising: an XOR engine which operates to generate in real time an XOR parity byte using said data and append said parity byte to said data (ii) check in real time XOR parity and (iii) correct in real time detected

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parity errors; a host network interface coupled to said XOR engine and for coupling to a host computer system; a cache coupled to said XOR engine; a storage device interface coupled to said cache and for coupling to a plurality of storage devices. The foregoing limitations are not found in the prior arts of record. Particularly, none of the prior arts of record teach nor fairly suggest, "...an XOR engine which operates to generate in *real time* an XOR parity byte using said data and append said parity byte to said data (ii) check in *real time* XOR parity and (iii) correct in *real time* detected parity errors.

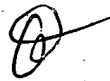
Dependent claims 9-11 depend from allowable independent claim 8 and inherently include limitations therein and therefore are allowed as well.

Any inquiries concerning this communication should be directed to the examiner, Mujtaba Chaudry who may be reached at 571-272-3817. The examiner may normally be reached Mon – Thur 6:30 am to 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, please contact the examiner's supervisor, Albert DeCady at 571-272-3819.



Mujtaba Chaudry  
Art Unit 2133  
March 23, 2006



GUY LAMARRE  
PRIMARY EXAMINER